

OHIO AGRICULTURAL EXPERIMENT STATION
Lane Avenue Farm, Columbus, Ohio

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CABBAGE VARIETY TRIALS - 1959
Columbus, Ohio

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Only small headed early fresh market types of cabbage were evaluated in the 1959 trials. Three new varieties or strains - Stokes Early Hybrid and Early Green Ball and Strandholm's Golden Acre were compared with seven other varieties for their suitability as fresh market cabbage. The results are given in Table 1.

CULTURAL INFORMATION

Seed was sown February 12 and seedlings transplanted to flats. Plants set in field on April 21. Rye cover crop plowed down on March 24 and 1000 lbs/A. of 10-10-10 fertilizer was drilled and disced in. Six lbs. of Dieldrin 50W/A was applied to area and disced in on April 16. At time of field setting 3 lbs. of 10-52-17 per 50 gal. and 4 oz. of Dieldrin 50W per 50 gal. were applied in transplanting water. Plants were spaced approximately 12 inches in the row 33 plants per 35 ft. of plot row. Rows spaced 36 inches apart. Single row plots randomized and replicated six times. Growing conditions during May and June were dry and warm with temperatures 90° F. plus immediately prior to harvest. Overhead irrigation used as needed. Pesticides used to control aphids, and cabbage worms.

SOURCES OF SEED

<u>Code</u>	<u>Source</u>
B ₁	W. Atlee Burpee & Co., Huntington Park @ 18th St., Philadelphia 32, Pa.
H ₁	Joseph-Harris Co., Inc. Moreton Farm, Rochester 11, N.Y.
R ₁	Robson Quality Seeds, Inc. Hall, N.Y.
S ₁	Stokes Seeds, Ltd., St. Catherines, Ontario, Canada
S ₃	C. P. Strandholm, 15 Falkonier Alle, Copenhagen F., Denmark

GENERAL COMMENTS

High temperatures and a light shower of rain immediately preceding harvest caused considerable cracking of the mid-ribs of the outer wrapper leaves on some of the varieties. The percentage of heads showing cracking at the time of harvest are recorded in the column preceding the "Remarks" column in Table 1.

Early Greenball could have been harvested 1 to 2 days earlier and minimized the amount and extent of cracked outer wrapper leaves. It had excellent quality, internal color and texture with an attractive deeply globular, solid head. Appeared promising and worthy of further evaluation.

Stokes Early Hybrid similar in type to Golden Acre and in same maturity range, but will hold as well or better. Good head shape and size. Maturity uniform but type not as uniform as most F₁ hybrids.

Golden Acre Strandholm strain could have been harvested 2-3 days earlier to minimize the cracking of outer wrapper leaves. Excellent uniformity and texture slightly finer than other Golden Acre strains. Wrapper leaves medium green in color and lightly savoyed or crinkled. Attractive.

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TABLE 1
CABBAGE VARIETIES
Columbus, Ohio - 1959

Row Number	Variety and Lot Number		Source	Number of Days to First Harvest	Yield per Acre	Average Head Weight	Firm Heads Harvested	Polar Diameter	Equatorial Diameter	Shape Index (Polar/Equatorial)	Shape of Head	Length of Core	Plant Diameter	Height of Stem	General Uniformity(1-5)	Univormity of Maturity	Solidity (1-5)	Cracked Heads	Remarks
					tons	lbs.	%	in.	in.			in.	in.					%	
5	Early Marvel	-	S ₁	56	15.9	2.4	95.8	5.5	6.0	0.92	Flat globe	3.3	22.0	S	4	4	5	7.0	Compact head exc. quality and texture. Sl.flecking on wrapper lvs.
7	Golden Acre Strandholm	409	S ₃	57	15.6	2.4	98.1	5.7	5.5	1.04	Globe	3.1	21.3	S	4	4	5	31.8	Earliest of G.A. strains, exc. color, texture, and quality.
8	Stokes Early Hybrid	61	S ₁	61	15.3	2.3	96.9	5.8	5.7	1.02	Globe	2.8	23.7	S	3	4	5	15.7	Not as unif. as most F ₁ hybrids, but good quality and holds well.
3	C.C. Cross Hybrid	49	R ₁	56	14.9	2.2	99.4	5.9	5.4	1.09	Globe	2.6	21.7	S	5	5	5	28.8	Exc. internal color & texture, solid and attractive head.
6	Early Greenball	-	S ₁	55	14.7	2.2	98.2	5.5	5.3	1.04	Globe	2.8	21.2	S	5	5	5	35.4	Very promising, possibly earlier than #4. Cracking very slight.
2	Golden Acre Y.R.	1586	H ₁	57	14.6	2.2	97.5	5.8	5.3	1.09	Globe	2.8	21.2	S	4	4	5	22.3	Earlier than G.A. Spec. Exc. quality.
4	Earliana	6272	B ₁	54	13.9	2.1	98.1	5.0	4.9	1.02	Globe	2.5	21.1	S	5	5	5	29.4	Earliest variety in test. Small compact head of exc. quality, cracks easily.
1	Golden Acre Special	1671	H ₁	59	13.2	2.1	96.8	6.0	5.4	1.11	Globe	3.1	22.4	S	3	4	5	9.2	Not as early as in former trials, good quality.
9	Badger Market Y.R.	1640	H ₁	65	11.8	1.8	94.9	5.5	5.3	1.03	Globe	2.3	22.1	S	5	5	5	0.0	Very firm solid heads, exc. internal color and texture. Holds well.
10	Red Acre	675	H ₁	76	8.7	1.3	99.4	-	-	-	Deep Globe	-	25.2	M	5	5	5	0.0	Smaller heads than normal, excellent color and quality.